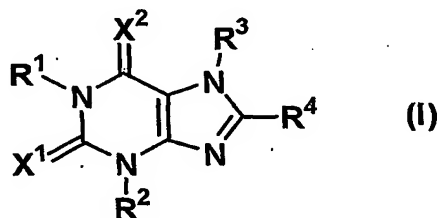
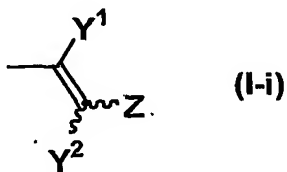


Claims

1. A method of treating an anxiety disorder selected from the group consisting of panic disorder, agoraphobia, obsessive-compulsive disorder, social phobia, post-traumatic stress disorder, and specific phobia, comprising administering an effective amount of at least one adenosine A_{2A} receptor antagonist to a patient in need thereof.
2. The method of treating an anxiety disorder according to claim 1 wherein the adenosine A_{2A} receptor antagonist is a xanthine derivative or a pharmaceutically acceptable salt thereof.
3. The method of treating an anxiety disorder according to claim 1 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (I):

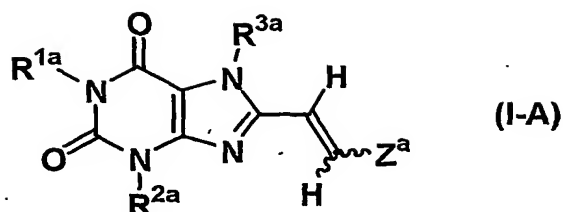


[wherein R¹, R² and R³ independently represent hydrogen, lower alkyl, lower alkenyl or lower alkynyl; R⁴ represents cycloalkyl, -(CH₂)_n-R⁵ (in which R⁵ represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; and n is an integer of 0 to 4) or formula (I-i)]

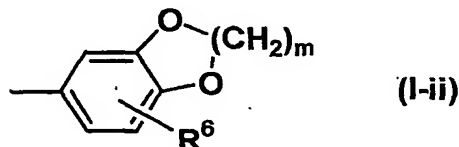


(in which Y¹ and Y² independently represent hydrogen, halogen or lower alkyl; and Z represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group); and X¹ and X² independently represent O or S], or a pharmaceutically acceptable salt thereof.

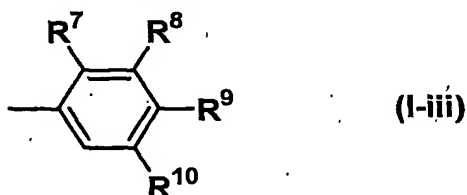
4. The method of treating an anxiety disorder according to claim 1 wherein the A_{2A} receptor antagonist is a compound represented by formula (I-A):



[wherein R^{1a} and R^{2a} independently represent methyl or ethyl; R^{3a} represents hydrogen or lower alkyl; and Z^a represents formula (I-ii) ,

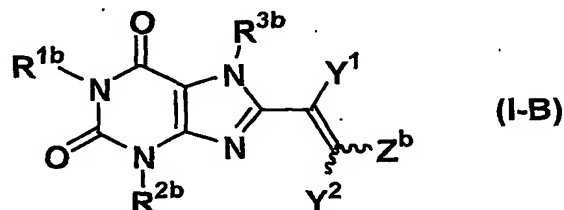


(in which R^6 represents hydrogen, hydroxy, lower alkyl, lower alkoxy, halogen, nitro or amino; and m represents an integer of 1 to 3) or formula (I-iii)

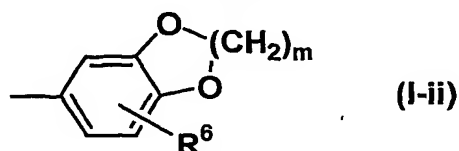


(in which at least one of R^7 , R^8 and R^9 represents lower alkyl or lower alkoxy and the others represent hydrogen; R^{10} represents hydrogen or lower alkyl)], or a pharmaceutically acceptable salt thereof.

5. The method of treating an anxiety disorder according to claim 1 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (I-B):



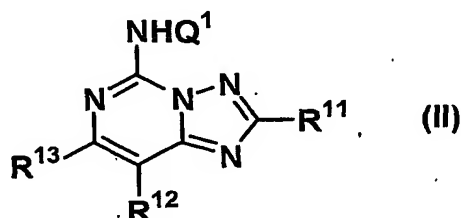
[wherein R^{1b} and R^{2b} independently represent hydrogen, propyl, butyl, lower alkenyl or lower alkynyl; R^{3b} represents hydrogen or lower alkyl; Z^b represents substituted or unsubstituted naphthyl, or formula (I-ii)



(in which R^6 and m have the same meanings as defined above, respectively); and Y^1 and Y^2 have the same meanings as defined above, respectively], or a pharmaceutically acceptable salt thereof.

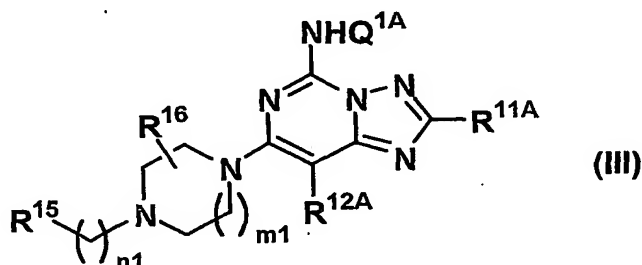
6. The method of treating an anxiety disorder according to claim 1 wherein the adenosine A_{2A} receptor antagonist is (E)-8-(3,4-dimethoxystyryl)-1,3-diethyl-7-methylxanthine or a pharmaceutically acceptable salt thereof.

7. The method of treating an anxiety disorder according to claim 1 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (II):



[wherein R¹¹ represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; R¹² represents hydrogen, halogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; R¹³ represents hydrogen, halogen or -WR¹⁴ (in which W represents -O- or -S-; and R¹⁴ represents substituted or unsubstituted lower alkyl, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group); and Q¹ represents hydrogen or 3,4-dimethoxybenzyl], or a pharmaceutically acceptable salt thereof.

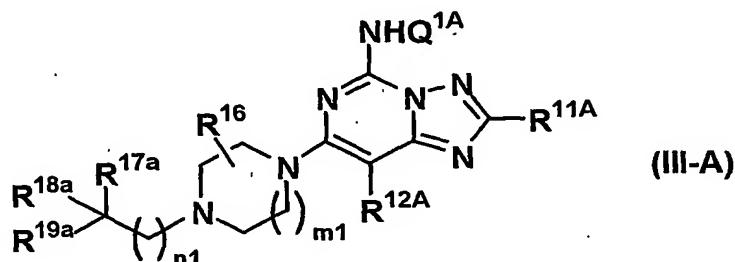
8. The method of treating an anxiety disorder according to claim 1 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (III):



[wherein R^{11A} represents substituted or unsubstituted aryl, or substituted or unsubstituted heteroaryl; R^{12A} represents hydrogen, halogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted aryl, or substituted or

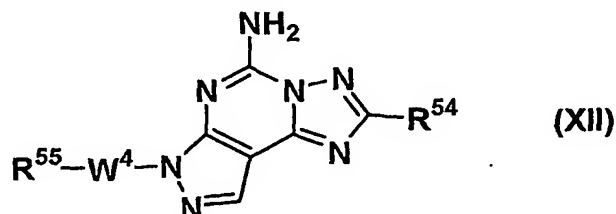
unsubstituted heteroaryl; m_1 and n_1 are independently an integer of 0 to 4; Q^{1A} represents hydrogen or 3,4-dimethoxybenzyl; R^{15} represents hydrogen, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, or $-CR^{17}R^{18}R^{19}$ (in which R^{17} , R^{18} and R^{19} independently represent hydrogen, hydroxy, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkoxy, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; or R^{18} and R^{19} are combined together with an adjacent carbon atom to form a substituted or unsubstituted carbon ring); and R^{16} represents hydrogen, halogen, hydroxy, or substituted or unsubstituted lower alkyl, or a pharmaceutically acceptable salt thereof.

9. The method of treating an anxiety disorder according to claim 1 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (III-A):



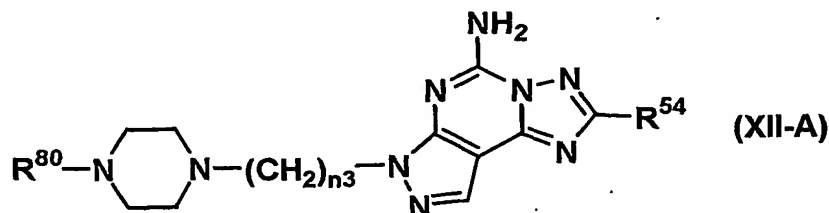
(wherein Q^{1A} , R^{11A} , R^{12A} , R^{16} , m_1 and n_1 have the same meanings as defined above, respectively; R^{17a} represents hydroxy, hydroxyl-substituted lower alkyl, substituted or unsubstituted lower alkoxy, or imidazo[1,2-a]pyridyl; and R^{18a} and R^{19a} independently represent hydrogen, substituted or unsubstituted lower alkyl, or substituted or unsubstituted aryl; or R^{18a} and R^{19a} are combined together with an adjacent carbon atom to form a substituted or unsubstituted carbon ring), or a pharmaceutically acceptable salt thereof.

10. The method of treating an anxiety disorder according to claim 1 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (XII):



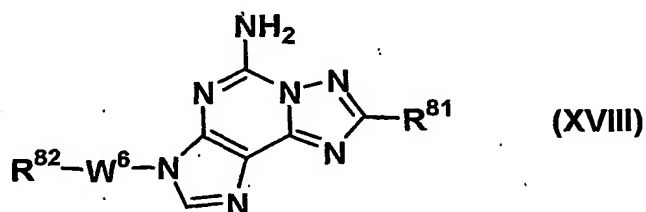
(wherein R^{54} represents substituted or unsubstituted aryl, substituted or unsubstituted cycloalkenyl, or substituted or unsubstituted heteroaryl; W^4 represents a single bond or $-C(=O)-$; and R^{55} represents substituted or unsubstituted lower alkyl), or a pharmaceutically acceptable salt thereof.

11. The method of treating an anxiety disorder according to claim 1 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (XII-A):



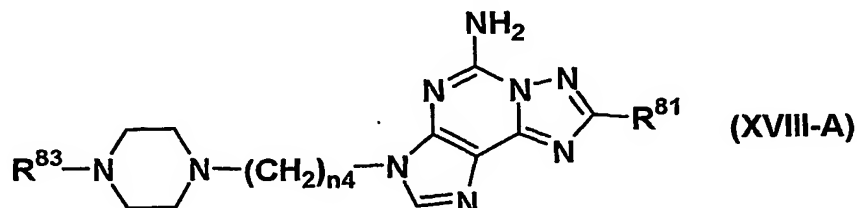
(wherein R^{54} has the same meaning as defined above; $n3$ is an integer of 1 to 4; and R^{80} represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group), or a pharmaceutically acceptable salt thereof.

12. The method of treating an anxiety disorder according to claim 1 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (XVIII):



(wherein R^{81} represents substituted or unsubstituted aryl, substituted or unsubstituted cycloalkenyl, or substituted or unsubstituted heteroaryl; W^6 represents a single bond or $-C(=O)-$; and R^{82} represents substituted or unsubstituted lower alkyl), or a pharmaceutically acceptable salt thereof.

13. The method of treating an anxiety disorder according to claim 1 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (XVIII-A):



(wherein R^{81} has the same meaning as defined above; n_4 is an integer of 1 to 4; and R^{83} represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group), or a pharmaceutically acceptable salt thereof.

14. The method of treating an anxiety disorder according to any one of claims 1 to 13, wherein the anxiety disorder is panic disorder.

15. The method of treating an anxiety disorder according to any one of claims 1 to 13, wherein the anxiety disorder is agoraphobia.

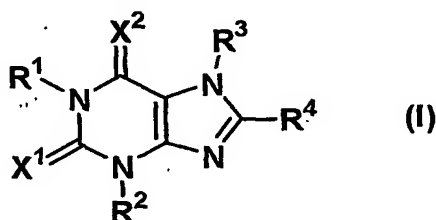
16. The method of treating an anxiety disorder according to any one of claims 1 to 13, wherein the anxiety disorder is obsessive-compulsive disorder.

17. The method of treating an anxiety disorder according to any one of claims 1 to 13, wherein the anxiety disorder is social phobia.

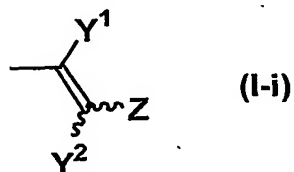
18. The method of treating an anxiety disorder according to any one of claims 1 to 13, wherein the anxiety disorder is post-traumatic stress disorder.

19. The method of treating an anxiety disorder according to any one of claims 1 to 13, wherein the anxiety disorder is specific phobia.

20. A method of treating an anxiety disorder, comprising administering an effective amount of a xanthine derivative represented by formula (I):

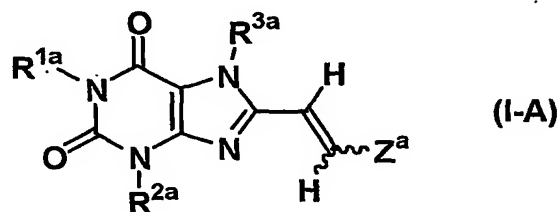


[wherein R^1 , R^2 and R^3 independently represent hydrogen, lower alkyl, lower alkenyl or lower alkynyl; R^4 represents cycloalkyl, $-(CH_2)_n-R^5$ (in which R^5 represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; and n is an integer of 0 to 4) or formula (I-i)]

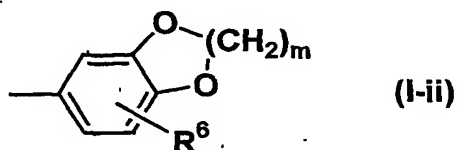


(in which Y^1 and Y^2 independently represent hydrogen, halogen or lower alkyl; and Z represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group); and X^1 and X^2 independently represent O or S], or a pharmaceutically acceptable salt thereof.

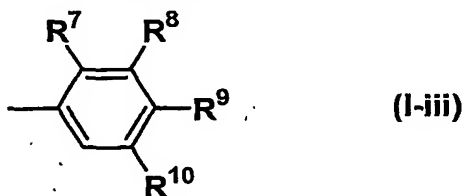
21. The method of treating an anxiety disorder according to claim 20 wherein the xanthine derivative is a compound represented by formula (I-A):



[wherein R^{1a} and R^{2a} independently represent methyl or ethyl; R^{3a} represents hydrogen or lower alkyl; and Z^a represents formula (I-ii)]

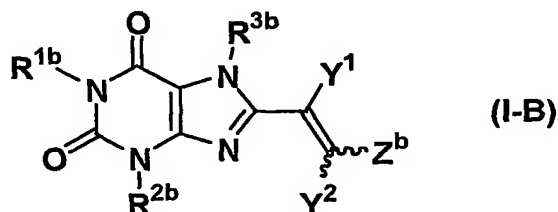


(in which R^6 represents hydrogen, hydroxy, lower alkyl, lower alkoxy, halogen, nitro or amino; and m represents an integer of 1 to 3) or formula (I-iii)]

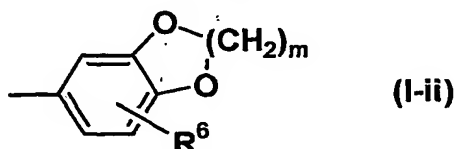


(in which at least one of R^7 , R^8 and R^9 represents lower alkyl or lower alkoxy and the others represent hydrogen; R^{10} represents hydrogen or lower alkyl)], or a pharmaceutically acceptable salt thereof.

22. The method of treating an anxiety disorder according to claim 20 wherein the xanthine derivative is a compound represented by formula (I-B):



[wherein R^{1b} and R^{2b} independently represent hydrogen, propyl, butyl, lower alkenyl or lower alkynyl; R^{3b} represents hydrogen or lower alkyl; Z^b represents substituted or unsubstituted naphthyl, or formula (I-ii)]



(in which R^6 and m have the same meanings as defined above, respectively); and Y^1 and Y^2 have the same meanings as defined above, respectively], or a pharmaceutically acceptable salt thereof.

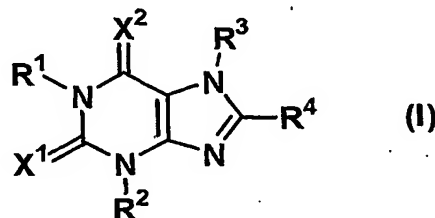
23. The method of treating an anxiety disorder according to claim 20 wherein the xanthine derivative is (E)-8-(3,4-dimethoxystyryl)-1,3-diethyl-7-methylxanthine.

24. The method of treating an anxiety disorder according to any one of claims 20 to 23, wherein the anxiety disorder is generalized anxiety disorder.

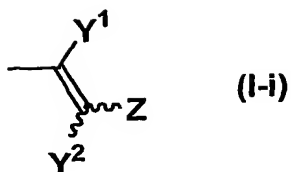
25. A method of treating an anxiety disorder, comprising administering an effective amount of at least one adenosine A_{2A} receptor antagonist in combination with an anxiolytic other than the adenosine A_{2A} receptor antagonist to a patient in need thereof.

26. The method of treating an anxiety disorder according to claim 25 wherein the adenosine adenosine A_{2A} receptor antagonist is a xanthine derivative or a pharmaceutically acceptable salt thereof.

27. The method of treating an anxiety disorder according to claim 25 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (I):

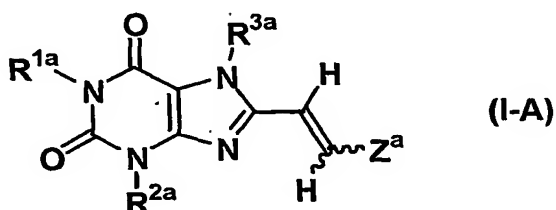


[wherein R^1 , R^2 and R^3 independently represent hydrogen, lower alkyl, lower alkenyl or lower alkynyl; R^4 represents cycloalkyl, $-(CH_2)_n-R^5$ (in which R^5 represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; and n is an integer of 0 to 4) or formula (I-i)]

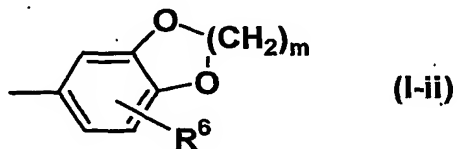


(in which Y^1 and Y^2 independently represent hydrogen, halogen or lower alkyl; and Z represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group); and X^1 and X^2 independently represent O or S], or a pharmaceutically acceptable salt thereof.

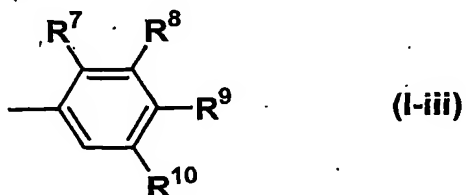
28. The method of treating an anxiety disorder according to claim 25 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (I-A):



[wherein R^{1a} and R^{2a} independently represent methyl or ethyl; R^{3a} represents hydrogen or lower alkyl; and Z^a represents formula (I-ii)]

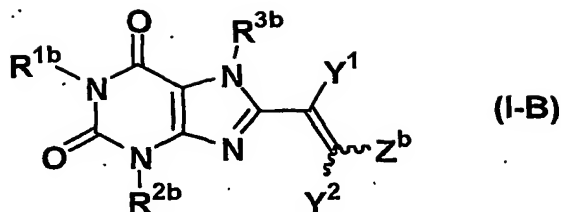


(in which R^6 represents hydrogen, hydroxy, lower alkyl, lower alkoxy, halogen, nitro or amino; and m represents an integer of 1 to 3) or formula (I-iii)

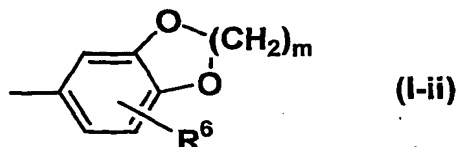


(in which at least one of R^7 , R^8 and R^9 represents lower alkyl or lower alkoxy and the others represent hydrogen; R^{10} represents hydrogen or lower alkyl)], or a pharmaceutically acceptable salt thereof.

29. The method of treating an anxiety disorder according to claim 25 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (I-B):



[wherein R^{1b} and R^{2b} independently represent hydrogen, propyl, butyl, lower alkenyl or lower alkynyl; R^{3b} represents hydrogen or lower alkyl; Z^b represents substituted or unsubstituted naphthyl, or formula (I-ii)]



(in which R^6 and m have the same meanings as defined above, respectively); and Y^1 and Y^2 have the same meanings as defined above, respectively], or a pharmaceutically acceptable salt thereof.

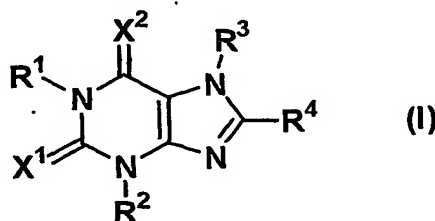
30. The method of treating an anxiety disorder according to claim 25 wherein the adenosine A_{2A} receptor antagonist is (E)-8-(3,4-dimethoxystyryl)-1,3-diethyl-7-methylxanthine.

31. The method of treating an anxiety disorder according to any one of claims 25 to 30, wherein the anxiety disorder is panic disorder, agoraphobia, obsessive-compulsive disorder, social phobia, post-traumatic stress disorder, generalized anxiety disorder or specific phobia.

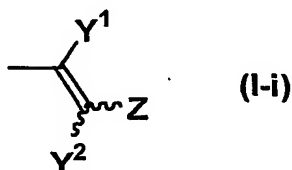
32. A composition comprising an adenosine A_{2A} receptor antagonist and an anxiolytic other than the adenosine A_{2A} receptor antagonist.

33. The composition according to claim 32 wherein the adenosine adenosine A_{2A} receptor antagonist is a xanthine derivative or a pharmaceutically acceptable salt thereof.

34. The composition according to claim 32 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (I):

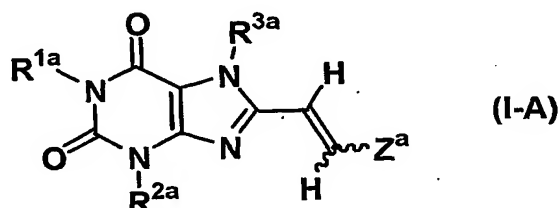


[wherein R^1 , R^2 and R^3 independently represent hydrogen, lower alkyl, lower alkenyl or lower alkynyl; R^4 represents cycloalkyl, $-(CH_2)_n-R^5$ (in which R^5 represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; and n is an integer of 0 to 4) or formula (I-i)

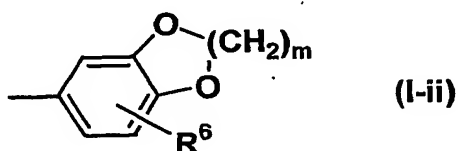


(in which Y^1 and Y^2 independently represent hydrogen, halogen or lower alkyl; and Z represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group); and X^1 and X^2 independently represent O or S], or a pharmaceutically acceptable salt thereof.

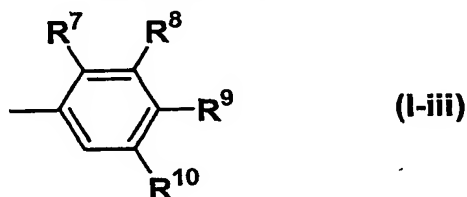
35. The composition according to claim 32 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (I-A):



[wherein R^{1a} and R^{2a} independently represent methyl or ethyl; R^{3a} represents hydrogen or lower alkyl; and Z^a represents formula (I-ii)



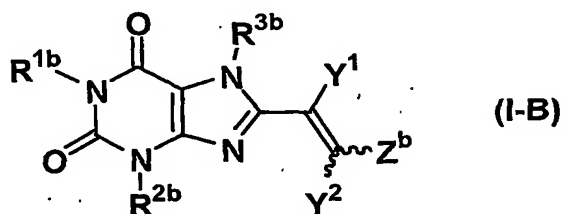
(in which R^6 represents hydrogen, hydroxy, lower alkyl, lower alkoxy, halogen, nitro or amino; and m represents an integer of 1 to 3) or formula (I-iii)



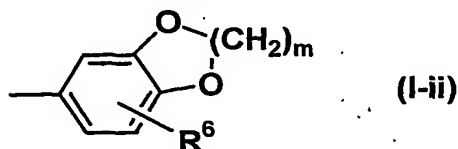
(in which at least one of R^7 , R^8 and R^9 represents lower alkyl or lower alkoxy and the others represent hydrogen; R^{10}

represents hydrogen or lower alkyl)], or a pharmaceutically acceptable salt thereof.

36. The composition according to claim 32 wherein the adenosine A_{2A} receptor antagonist is a compound represented by formula (I-B):



[wherein R^{1b} and R^{2b} independently represent hydrogen, propyl, butyl, lower alkenyl or lower alkynyl; R^{3b} represents hydrogen or lower alkyl; Z^b represents substituted or unsubstituted naphthyl, or formula (I-ii)



(in which R⁶ and m have the same meanings as defined above, respectively); and Y¹ and Y² have the same meanings as defined above, respectively], or a pharmaceutically acceptable salt thereof.

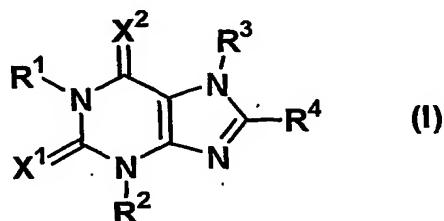
37. The composition according to claim 32 wherein the adenosine A_{2A} receptor antagonist is (E)-8-(3,4-dimethoxystyryl)-1,3-diethyl-7-methylxanthine, or a pharmaceutically acceptable salt thereof.

38. The method of treating an anxiety disorder according to claim 1 wherein the adenosine A_{2A} receptor antagonist is a triazolopyrimidine derivative or a pharmaceutically acceptable salt thereof.

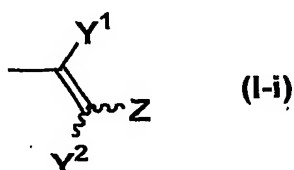
39. An agent for treating an anxiety disorder selected from the group consisting of panic disorder, agoraphobia, obsessive-compulsive disorder, social phobia, post-traumatic stress disorder, and specific phobia, comprising a compound having adenosine A_{2A} receptor antagonistic activity or a pharmaceutically acceptable salt thereof as an active ingredient.

40. The agent for treating an anxiety disorder according to claim 39 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a xanthine derivative or a pharmaceutically acceptable salt thereof.

41. The agent for treating an anxiety disorder according to claim 39 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (I):

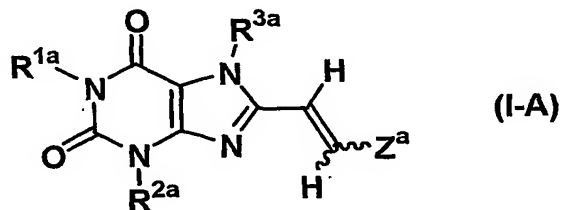


[wherein R¹, R² and R³ independently represent hydrogen, lower alkyl, lower alkenyl or lower alkynyl; R⁴ represents cycloalkyl, -(CH₂)_n-R⁵ (in which R⁵ represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; and n is an integer of 0 to 4) or formula (I-i)

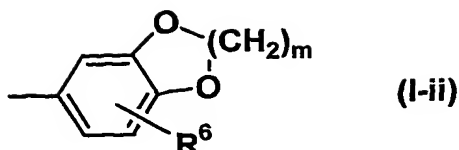


(in which Y¹ and Y² independently represent hydrogen, halogen or lower alkyl; and Z represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group); and X¹ and X² independently represent O or S], or a pharmaceutically acceptable salt thereof.

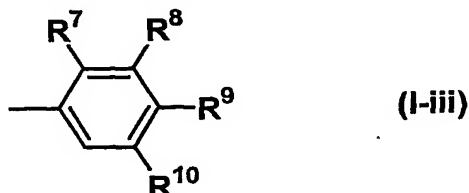
42. The agent for treating an anxiety disorder according to claim 39 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (I-A):



[wherein R^{1a} and R^{2a} independently represent methyl or ethyl; R^{3a} represents hydrogen or lower alkyl; and Z^a represents formula (I-ii)

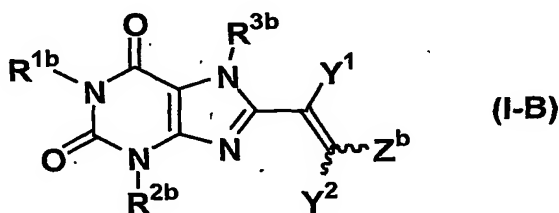


(in which R^6 represents hydrogen, hydroxy, lower alkyl, lower alkoxy, halogen, nitro or amino; and m represents an integer of 1 to 3) or formula (I-iii)

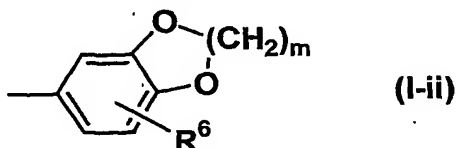


(in which at least one of R^7 , R^8 and R^9 represents lower alkyl or lower alkoxy and the others represent hydrogen; R^{10} represents hydrogen or lower alkyl), or a pharmaceutically acceptable salt thereof.

43. The agent for treating an anxiety disorder according to claim 39 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (I-B):



[wherein R^{1b} and R^{2b} independently represent hydrogen, propyl, butyl, lower alkenyl or lower alkynyl; R^{3b} represents hydrogen or lower alkyl; Z^b represents substituted or unsubstituted naphthyl, or formula (I-ii)]



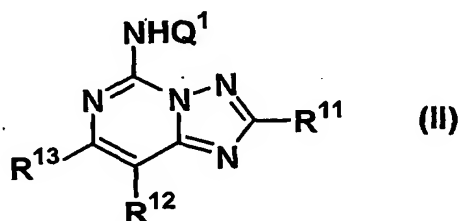
(in which R^6 and m have the same meanings as defined above, respectively); and Y^1 and Y^2 have the same meanings as defined above, respectively], or a pharmaceutically acceptable salt thereof.

44. The agent for treating an anxiety disorder according to claim 39 wherein the compound having adenosine A_{2A} receptor antagonistic activity is (E)-8-(3,4-

dimethoxystyryl)-1,3-diethyl-7-methylxanthine or a pharmaceutically acceptable salt thereof.

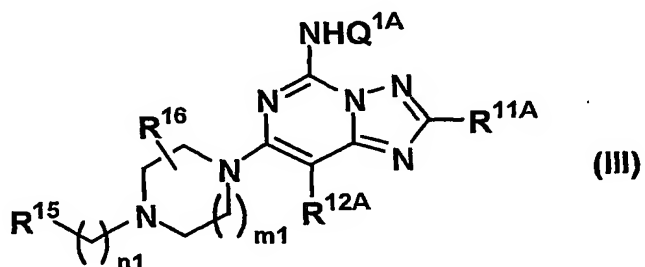
45. The agent for treating an anxiety disorder according to claim 39 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a triazolopyrimidine derivative or a pharmaceutically acceptable salt thereof.

46. The agent for treating an anxiety disorder according to claim 39 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (II):



[wherein R¹¹ represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; R¹² represents hydrogen, halogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; R¹³ represents hydrogen, halogen or -WR¹⁴ (in which W represents -O- or -S-; and R¹⁴ represents substituted or unsubstituted lower alkyl, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group); and Q¹ represents hydrogen or 3,4-dimethoxybenzyl], or a pharmaceutically acceptable salt thereof.

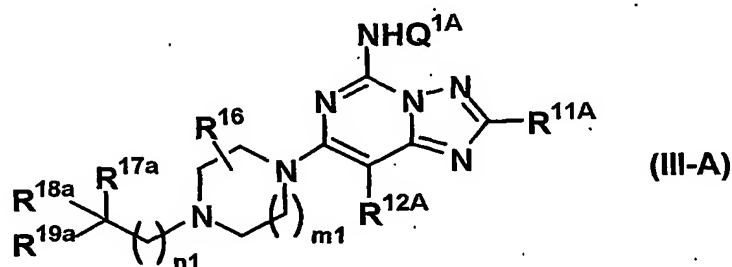
47. The agent for treating an anxiety disorder according to claim 39 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (III):



[wherein R^{11A} represents substituted or unsubstituted aryl, or substituted or unsubstituted heteroaryl; R^{12A} represents hydrogen, halogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted aryl, or substituted or

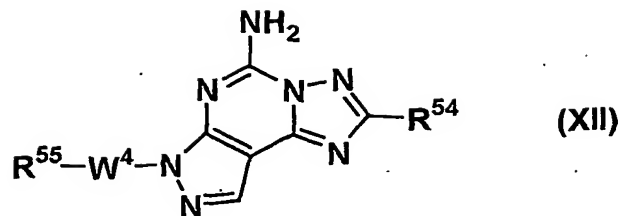
unsubstituted heteroaryl; m_1 and n_1 are independently an integer of 0 to 4; Q^{1A} represents hydrogen or 3,4-dimethoxybenzyl; R^{15} represents hydrogen, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, or $-CR^{17}R^{18}R^{19}$ (in which R^{17} , R^{18} and R^{19} independently represent hydrogen, hydroxy, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkoxy, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; or R^{18} and R^{19} are combined together with an adjacent carbon atom to form a substituted or unsubstituted carbon ring); and R^{16} represents hydrogen, halogen, hydroxy, or substituted or unsubstituted lower alkyl, or a pharmaceutically acceptable salt thereof.

48. The agent for treating an anxiety disorder according to claim 39 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (III-A):



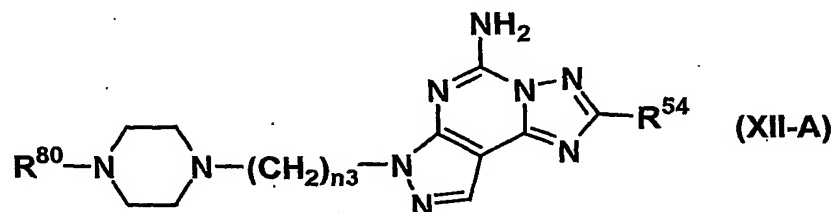
(wherein Q^{1A} , R^{11A} , R^{12A} , R^{16} , m_1 and n_1 have the same meanings as defined above, respectively; R^{17a} represents hydroxy, hydroxyl-substituted lower alkyl, substituted or unsubstituted lower alkoxy, or imidazo[1,2-a]pyridyl; and R^{18a} and R^{19a} independently represent hydrogen, substituted or unsubstituted lower alkyl, or substituted or unsubstituted aryl; or R^{18a} and R^{19a} are combined together with an adjacent carbon atom to form a substituted or unsubstituted carbon ring), or a pharmaceutically acceptable salt thereof.

49. The agent for treating an anxiety disorder according to claim 39 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (XII):



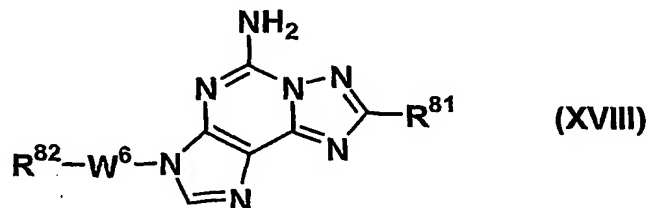
(wherein R^{54} represents substituted or unsubstituted aryl, substituted or unsubstituted cycloalkenyl, or substituted or unsubstituted heteroaryl; W^4 represents a single bond or $-C(=O)-$; and R^{55} represents substituted or unsubstituted lower alkyl), or a pharmaceutically acceptable salt thereof.

50. The agent for treating an anxiety disorder according to claim 39 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (XII-A):



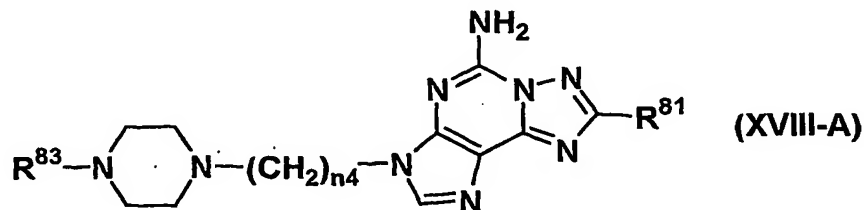
(wherein R^{54} has the same meaning as defined above; $n3$ is an integer of 1 to 4; and R^{80} represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group), or a pharmaceutically acceptable salt thereof.

51. The agent for treating an anxiety disorder according to claim 39 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (XVIII):



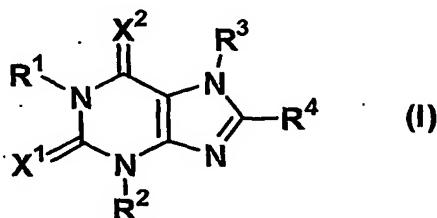
(wherein R^{81} represents substituted or unsubstituted aryl, substituted or unsubstituted cycloalkenyl, or substituted or unsubstituted heteroaryl; W^6 represents a single bond or $-C(=O)-$; and R^{82} represents substituted or unsubstituted lower alkyl), or a pharmaceutically acceptable salt thereof.

52. The agent for treating an anxiety disorder according to claim 39 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (XVIII-A):

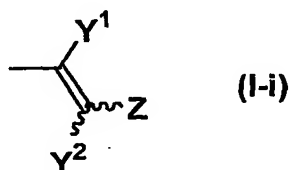


(wherein R⁸¹ has the same meaning as defined above; n₄ is an integer of 1 to 4; and R⁸³ represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group), or a pharmaceutically acceptable salt thereof.

53. An agent for treating an anxiety disorder, comprising a xanthine derivative represented by formula (I):



[wherein R¹, R² and R³ independently represent hydrogen, lower alkyl, lower alkenyl or lower alkynyl; R⁴ represents cycloalkyl, -(CH₂)_n-R⁵ (in which R⁵ represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; and n is an integer of 0 to 4) or formula (I-i)]



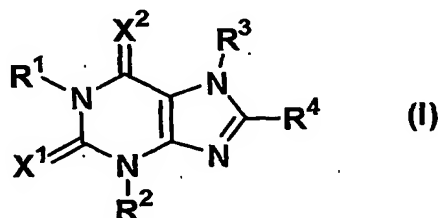
(in which Y¹ and Y² independently represent hydrogen, halogen or lower alkyl; and Z represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group); and X¹ and X² independently represent O or S], or a pharmaceutically acceptable salt thereof as an active ingredient.

54. Use of a compound having adenosine A_{2A} receptor antagonistic activity or a pharmaceutically acceptable salt

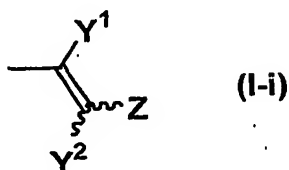
thereof for the manufacture of an agent for treating an anxiety disorder selected from the group consisting of panic disorder, agoraphobia, obsessive-compulsive disorder, social phobia, post-traumatic stress disorder, and specific phobia.

55. The use according to claim 54 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a xanthine derivative or a pharmaceutically acceptable salt thereof.

56. The use according to claim 54 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (I):

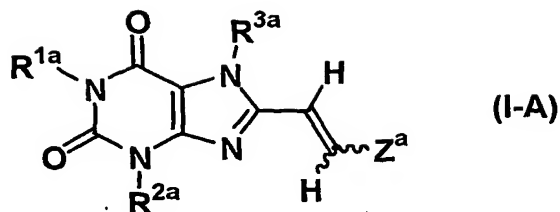


[wherein R¹, R² and R³ independently represent hydrogen, lower alkyl, lower alkenyl or lower alkynyl; R⁴ represents cycloalkyl, -(CH₂)_n-R⁵ (in which R⁵ represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; and n is an integer of 0 to 4) or formula (I-i)

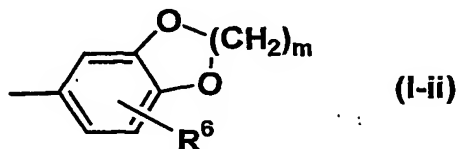


(in which Y¹ and Y² independently represent hydrogen, halogen or lower alkyl; and Z represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group); and X¹ and X² independently represent O or S], or a pharmaceutically acceptable salt thereof.

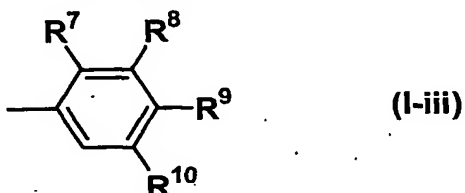
57. The use according to claim 54 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (I-A):



[wherein R^{1a} and R^{2a} independently represent methyl or ethyl; R^{3a} represents hydrogen or lower alkyl; and Z^a represents formula (I-ii)]

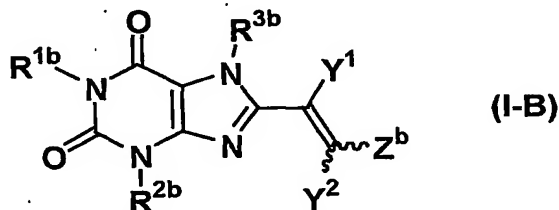


(in which R^6 represents hydrogen, hydroxy, lower alkyl, lower alkoxy, halogen, nitro or amino; and m represents an integer of 1 to 3) or formula (I-iii)

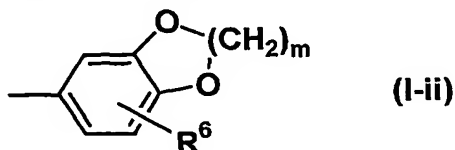


(in which at least one of R^7 , R^8 and R^9 represents lower alkyl or lower alkoxy and the others represent hydrogen; R^{10} represents hydrogen or lower alkyl)], or a pharmaceutically acceptable salt thereof.

58. The use according to claim 54 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (I-B):



[wherein R^{1b} and R^{2b} independently represent hydrogen, propyl, butyl, lower alkenyl or lower alkynyl; R^{3b} represents hydrogen or lower alkyl; Z^b represents substituted or unsubstituted naphthyl, or formula (I-ii)]

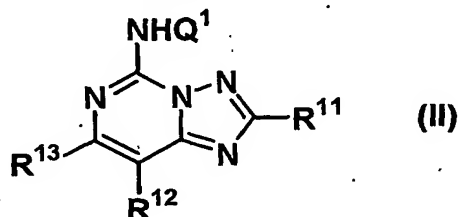


(in which R^6 and m have the same meanings as defined above, respectively); and Y^1 and Y^2 have the same meanings as defined above, respectively], or a pharmaceutically acceptable salt thereof.

59. The use according to claim 54 wherein the compound having adenosine A_{2A} receptor antagonistic activity is (E)-8-(3,4-dimethoxystyryl)-1,3-diethyl-7-methylxanthine or a pharmaceutically acceptable salt thereof.

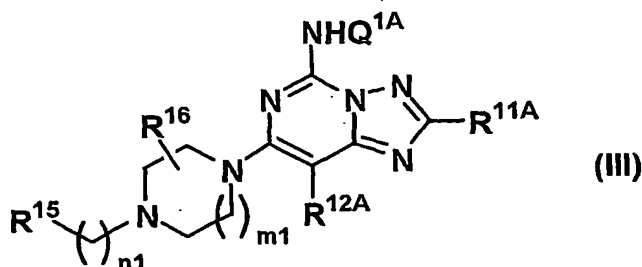
60. The use according to claim 54 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a triazolopyrimidine derivative or a pharmaceutically acceptable salt thereof.

61. The use according to claim 54 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (II):



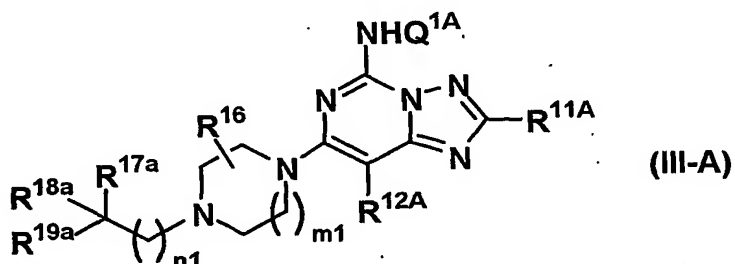
[wherein R^{11} represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; R^{12} represents hydrogen, halogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; R^{13} represents hydrogen, halogen or $-WR^{14}$ (in which W represents $-O-$ or $-S-$; and R^{14} represents substituted or unsubstituted lower alkyl, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group); and Q^1 represents hydrogen or 3,4-dimethoxybenzyl], or a pharmaceutically acceptable salt thereof.

62. The use according to claim 54 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (III):



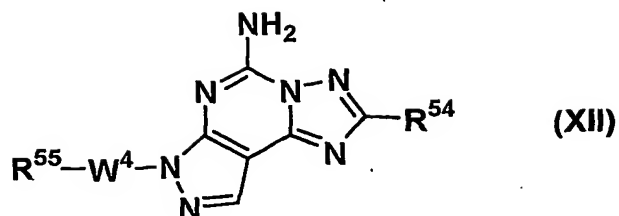
[wherein R^{11A} represents substituted or unsubstituted aryl, or substituted or unsubstituted heteroaryl; R^{12A} represents hydrogen, halogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted aryl, or substituted or unsubstituted heteroaryl; m_1 and n_1 are independently an integer of 0 to 4; Q^{1A} represents hydrogen or 3,4-dimethoxybenzyl; R^{15} represents hydrogen, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, or $-CR^{17}R^{18}R^{19}$ (in which R^{17} , R^{18} and R^{19} independently represent hydrogen, hydroxy, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkoxy, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; or R^{18} and R^{19} are combined together with an adjacent carbon atom to form a substituted or unsubstituted carbon ring); and R^{16} represents hydrogen, halogen, hydroxy, or substituted or unsubstituted lower alkyl], or a pharmaceutically acceptable salt thereof.

63. The use according to claim 54 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (III-A):



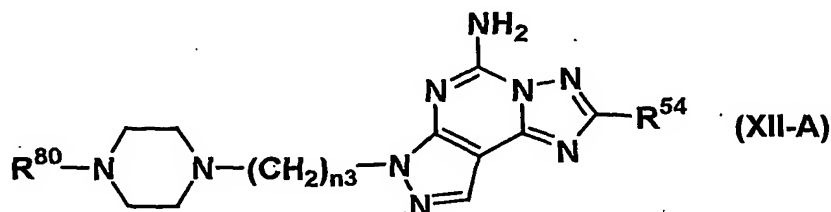
(wherein Q^{1A} , R^{11A} , R^{12A} , R^{16} , m_1 and n_1 have the same meanings as defined above, respectively; R^{17a} represents hydroxy, hydroxyl-substituted lower alkyl, substituted or unsubstituted lower alkoxy, or imidazo[1,2-a]pyridyl; and R^{18a} and R^{19a} independently represent hydrogen, substituted or unsubstituted lower alkyl, or substituted or unsubstituted aryl; or R^{18a} and R^{19a} are combined together with an adjacent carbon atom to form a substituted or unsubstituted carbon ring), or a pharmaceutically acceptable salt thereof.

64. The use according to claim 54 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (XII):



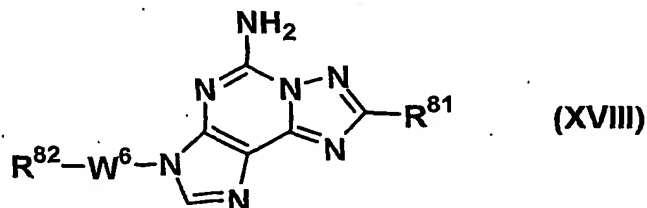
(wherein R^{54} represents substituted or unsubstituted aryl, substituted or unsubstituted cycloalkenyl, or substituted or unsubstituted heteroaryl; W^4 represents a single bond or $-C(=O)-$; and R^{55} represents substituted or unsubstituted lower alkyl), or a pharmaceutically acceptable salt thereof.

65. The use according to claim 54 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (XII-A):



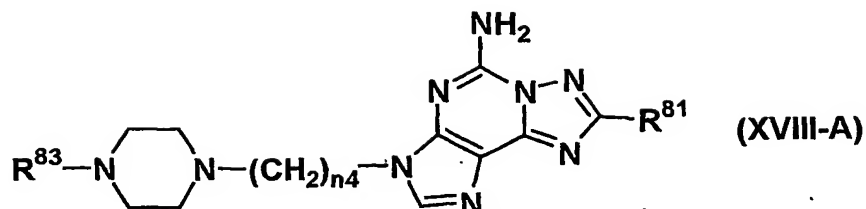
(wherein R^{54} has the same meaning as defined above; $n3$ is an integer of 1 to 4; and R^{80} represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group), or a pharmaceutically acceptable salt thereof.

66. The use according to claim 54 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (XVIII):



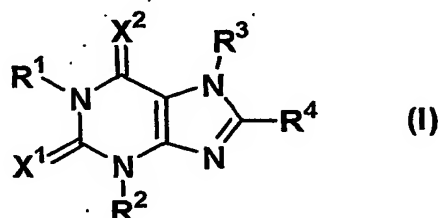
(wherein R^{81} represents substituted or unsubstituted aryl, substituted or unsubstituted cycloalkenyl, or substituted or unsubstituted heteroaryl; W^6 represents a single bond or $-C(=O)-$; and R^{82} represents substituted or unsubstituted lower alkyl), or a pharmaceutically acceptable salt thereof.

67. The use according to claim 54 wherein the compound having adenosine A_{2A} receptor antagonistic activity is a compound represented by formula (XVIII-A):

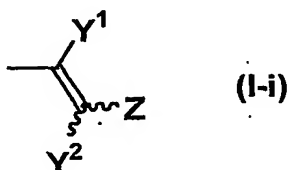


(wherein R^{81} has the same meaning as defined above; n_4 is an integer of 1 to 4; and R^{83} represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group), or a pharmaceutically acceptable salt thereof.

68. Use of a xanthine derivative represented by formula (I):



[wherein R^1 , R^2 and R^3 independently represent hydrogen, lower alkyl, lower alkenyl or lower alkynyl; R^4 represents cycloalkyl, $-(CH_2)_n-R^5$ (in which R^5 represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group; and n is an integer of 0 to 4) or formula (I-i)



(in which Y^1 and Y^2 independently represent hydrogen, halogen or lower alkyl; and Z represents substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group); and X^1 and X^2 independently represent O or S], or a pharmaceutically acceptable salt thereof for the manufacture of an agent for treating an anxiety disorder.